Claims:

Please cancel claims 44-65. The claims are as follows:

- 1. (Canceled)
- 2. (Previously Presented) The method of claim 5, wherein said second width has a value less than a value of a minimum dimension producible by a photolithographic process used to form said patterned hard mask layer.
- 3. (Previously Presented) The method of claim 5, further including removing said patterned hard mask layer.
- 4. (Previously Presented) The method of claim 5, wherein said patterned hard mask layer comprises silicon oxide.
- 5. (Previously Presented) A method of fabricating a polysilicon line, comprising:
 forming a patterned hard mask layer over a polysilicon layer;
 patterning the polysilicon layer to provide a hard mask-capped polysilicon line having a

first width; and

isotropically removing portions of said polysilicon line to reduce said polysilicon line to a second width by converting a surface layer of said polysilicon line to an oxide layer and isotropically etching said oxide layer.

- 6. (Previously Presented) The method of claim 5, wherein the step of removing portions of the polysilicon line includes oxidizing a surface of said polysilicon line in a saturated aqueous solution of O₃ to form said oxide layer on said polysilicon line followed by etching said oxide layer in a solution comprising HF in water.
- 7. (Previously Presented) The method of claim 5, wherein the step of removing portions of the polysiticon line includes oxidizing a surface of said polysiticon line in a saturated aqueous solution of O₃ to form said oxide layer on said polysiticon line followed by etching said oxide layer in an HF containing vapor.
- 8-18. (Canceled)
- 19. (Previously Presented) A method of forming a transistor gate, comprising:

 forming a dielectric layer on a top surface of a substrate;

 forming a polysilicon layer on a top surface of said dielectric layer;

 forming a patterned hard mask layer on a top surface of said polysilicon layer;

 patterning the polysilicon to provide a hard mask-capped polysilicon electrode having a

 first width;

isotropically removing portions of the polysilicon electrode to reduce said polysilicon line to a second width by converting a surface layer of said polysilicon line to an oxide layer and isotropically etching said oxide layer; and

removing said patterned hard mask layer.

- 20. (Previously Presented) The method of claim 19, wherein said second width has a value less than a value of a minimum dimension producible by a photolithographic process used to form said patterned hard mask layer.
- 21. (Canceled)
- 22. (Previously Presented) The method of claim 19, further including simultaneously removing portions of said dielectric layer not covered by said polysilicon electrode and said patterned hard mask.
- 23. (Original) The method of claim 19, wherein said hard mask layer and said dielectric layer comprise silicon oxide.
- 24. (Previously Presented) The method of claim 19, wherein said substrate is selected from the group consisting of silicon substrates, silicon on insulator substrates, gallium arsenide substrates and sapphire substrates.
- 25. (Previously Presented) The method of claim 19, wherein the step of removing portions of the polysilicon electrode includes oxidizing a surface of said polysilicon electrode in a saturated aqueous solution of O₃ to form said oxide layer on said polysilicon electrode followed by etching said oxide layer in a solution comprising HF in water.

26. (Previously Presented) The method of claim 19, wherein the step of removing portions of the polysilicon electrode includes oxidizing a surface of said polysilicon electrode in a saturated aqueous solution of O₃ to form said oxide layer on said polysilicon electrode followed by elching said oxide layer in an HF containing vapor.

- 27. (Canceled)
- 28. (Canceled)
- 29. (Previously Presented) A method of forming a transistor gate, comprising:

forming a dielectric layer on a top surface of a substrate;

forming a polysilicon layer on a top surface of said dielectric layer;

forming a patterned hard mask layer on a top surface of said polysilicon layer;

patterning the polysilicon to provide a hard mask-capped polysilicon electrode having a first width;

measuring said first width;

comparing said first width to a target width and determining a differential between said first width and said target width;

calculating a number of polysilicon oxidation/isotropic polysilicon oxide etch cycles based on said differential; and

performing the calculated number of polysilicon oxidation/isotropic polysilicon oxide etch cycles.

- 30. (Previously Presented) The method of claim 29, wherein said target width has a value less than a value of a minimum dimension producible by a photolithographic process used to form said patterned hard mask layer.
- 31. (Original) The method of claim 29, further including removing said patterned hard mask layer.
- 32. (Previously Presented) The method of claim 29, further including simultaneously removing portions of said dielectric layer not covered by said polysilicon electrode and said patterned hard mask.
- 33. (Original) The method of claim 29, wherein said hard mask layer and said dielectric layer comprise silicon oxide.
- 34. (Previously Presented) The method of claim 29, wherein said substrate is selected from the group consisting of silicon substrates, silicon on insulator substrates, gallium arsenide substrates and sapphire substrates.

44-65. (Canceled)